

File 8: Ei Compendex(R) 1970-2000/Apr W3
 (c) 2000 Engineering Info. Inc.
 File 14: Mechanical Engineering Abs 1973-2000/May
 (c) 2000 Cambridge Sci Abs
 File 94: JICST-EPlus 1985-2000/Jan W3
 (c) 2000 Japan Science and Tech Corp (JST)
 File 6: NTIS 1964-2000/May W4
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 File 34: SciSearch(R) Cited Ref Sci 1990-2000/Apr W5
 (c) 2000 Inst for Sci Info
 File 434: SciSearch(R) Cited Ref Sci 1974-1989/Dec
 (c) 1998 Inst for Sci Info
 File 2: INSPEC 1969-2000/Apr W1
 (c) 2000 Institution of Electrical Engineers
 File 35: DISSERTATION ABSTRACTS ONLINE 1861-1999/DEC
 (c) 2000 UMI
 File 65: Inside Conferences 1993-2000/May W1
 (c) 2000 BLDSC all rts. reserv.
 File 77: Conference Papers Index 1973-2000/Mar
 (c) 2000 Cambridge Sci Abs
 File 99: Wilson Appl. Sci & Tech Abs 1983-2000/Mar
 (c) 2000 The HW Wilson Co.

Set	Items	Description
S1	524258	INVENTOR? OR LIST? OR CATALOG? OR CATALOGUE? OR REGISTER?
S2	2955034	SUPPLIES OR STOCK OR ITEMS OR PRODUCT?
S3	1188497	(PLURAL? OR MANY OR SEVERAL OR MULTI OR MULTIPLE OR NUMERO- US OR DISTRIBUT?) (3N) (COMPUTER? ? OR SERVER ? ?) OR NETWORK?
S4	180695	TREE(3N) STRUCTUR? OR HIERARCH?
S5	3960579	DOMAIN? OR FUNCTION? OR DEVELOPMENT?(3N) (LEVEL? OR STEPS OR PHASES OR MODULE?)
S6	6181881	PLAN? OR SCHEDUL? OR MANAG? OR DIRECT?
S7	2259084	MACHINING OR MANUFACT? OR PRODUCTION OR PRODUCING
S8	4716572	PARTS OR COMPONENT? OR SEGMENT? ? OR PIECE? ? OR PORTION? ? OR SECTION? ? OR PART OR UNIT? ?
S9	3805602	STATUS OR SIZE OR NUMBER? OR AMOUNT
S10	1327421	EXPANSION? OR EXPAND? OR ADDITIONAL OR ADDED OR EXPEND?
S11	534123	FORWARD OR DELIVER? OR SEND? OR SENT?
S12	2221060	ORDER? OR REQUEST? OR REQUISITION?
S13	280225	STOPPED OR HALT? OR STOP OR CANCEL? OR REMIT? OR SUSPEND? - OR INTERRUPT?
S14	1241752	PREPAR? OR READY OR START OR ISSUING
S15	57366	(AUTOMATIC? OR SIMULTAN? OR DYNAMIC OR REAL() TIME OR CURRE- NT? OR PRESENT? OF INSTANT? OR IMMEDIAT?) (3N) (UPDAT? OR CHANG? OR MODIF?)
S16	4694	S1 AND S2 AND S3
S17	40871	S4 AND S5
S18	619061	S6 AND S7
S19	11	S16 AND S17 AND S18
S20	9	RD S19 (unique items)
S21	15221	(S10 OR S11) AND S12 AND (S13 OR S14)
S22	8656	S7(3N) S6(5N) S8
S23	59	(S16 OR S21) AND S22
S24	51	S23 NOT (PY=>1997 OR PD=>970728)
S25	46	RD S24 (unique items)
S26	46	S25 NOT S20
S27	40	S26 NOT (ENCYCLOPEDIA OR FIRING() RANGE OR WASTEWATERS OR H- ANFORD OR DIETARY OR SALINE)
S28	168	MACHINING() PLAN?
S29	0	S28(3N) S8(5N) S12
S30	95	S28 AND S8
S31	12	S30 AND S12
S32	9	RD S31 (unique items)
S33	7	S32 NOT (PY=>1997 OR PD=>970728)
S34	2	S28 AND S1
S35	32	S28 AND S5
S36	1	S35 AND S4

5/10.00

File 349:PCT Fulltext 1980-2000/UB=, UT=20000413
(c) 2000 WIPO/MicroPatent
File 348:European Patents 1978-2000/Apr W03
(c) 2000 European Patent Office

Set	Items	Description
S1	286374	INVENTOR? OR LIST? OR CATALOG? OR CATALOGUE? OR REGISTER?
S2	549707	SUPPLIES OR STOCK OR ITEMS OR PRODUCT?
S3	98807	(PLURAL? OR MANY OR SEVERAL OR MULTI OR MULTIPLE OR NUMERO- US OR DISTRIBUT?) (3N) (COMPUTER? ? OR SERVER ? ?) OR NETWORK?
S4	240938	RELATED OR RELATIONAL OR RDBMS OR RELATIONAL() DATABASE() MA- NAGEMENT() SYSTEM?
S5	14436	TREE(3N) STRUCTUR? OR HIERARCH?
S6	483585	DOMAIN? OR FUNCTION? OR DEVELOPMENT?(3N) (LEVEL? OR STEPS OR PHASES OR MODULE?)
S7	788395	PLAN? OR SCHEDUL? OR MANAG? OR DIRECT?
S8	582061	MACHINING OR MANUFACT? OR PRODUCTION OR PRODUCING
S9	972338	PARTS OR COMPONENT? OR SEGMENT? ? OR PIECE? ? OR PORTION? ? OR SECTION? ? OR PART OR UNIT? ?
S10	713364	STATUS OR SIZE OR NUMBER? OR AMOUNT
S11	557124	EXPANSION? OR EXPAND? OR ADDITIONAL OR ADDED OR EXPEND?
S12	307781	FORWARD OR DELIVER? OR SEND? OR SENT?
S13	1163027	ORDER? OR REQUEST? OR REQUISITION?
S14	414055	STOPPED OR HALT? OR STOP OR CANCEL? OR REMIT? OR SUSPEND? - OR INTERRUPT?
S15	500224	PREPAR? OR READY OR START OR ISSUING
S16	35794	(AUTOMATIC? OR SIMULTAN? OR DYNAMIC OR REAL() TIME OR CURRE- NT? OR PRESENT? OF INSTANT? OR IMMEDIAT?) (3N) (UPDAT? OR CHANG? OR MODIF?)
S17	2452	S1(S) S2(S) (S3 OR S4)
S18	3619	S5(S) S6
S19	56750	S7(S) S8(S) S9
S20	52584	(S10 OR S11 OR S12) (S) S13(S) (S14 OR S15)
S21	0	S17(S) S18(S) S19(S) S20
S22	14	S17(S) S18
S23	0	S22(S) S19
S24	77	S17(S) S19
S25	5	S24(10N) S20
S26	5	S25 NOT S22
S27	293	S1(3N) S2(5N) S7(3N) S8
S28	45	S27(3N) S9
S29	17	S28(3N) S13
S30	8	S29(5N) (S12 OR S14 OR S15)
S31	1131	IC=G06F-019/00
S32	0	S24 AND S31
S33	4	S27 AND S31
S34	3	S33 NOT (S30 OR S26 OR S22)

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File 344:Chinese Patents S Apr 1985-2000/Feb
(c) 2000 European Patent Office
File 347:JAPIO Oct 1976-1999/Oct(UPDATED 000208)
(c) 2000 JPO & JAPIO
File 351:DERWENT WPI 1963-2000/UD=, UM=, & UP=200022
(c) 2000 Derwent Info Ltd

Set	Items	Description
S1	282319	INVENTOR? OR LIST? OR CATALOG? OR CATALOGUE? OR REGISTER?
S2	1532928	SUPPLIES OR STOCK OR ITEMS OR PRODUCT?
S3	182313	(PLURAL? OR MANY OR SEVERAL OR MULTI OR MULTIPLE OR NUMERO- US OR DISTRIBUT?) (3N) (COMPUTER? ? OR SERVER ? ?) OR NETWORK?
S4	13966	TREE(3N)STRUCTUR? OR HIERARCH?
S5	645980	DOMAIN? OR FUNCTION? OR DEVELOPMENT?(3N) (LEVEL? OR STEPS OR PHASES OR MODULE?)
S6	2771443	PLAN? OR SCHEDUL? OR MANAG? OR DIRECT?
S7	1873987	MACHINING OR MANUFACT? OR PRODUCTION OR PRODUCING
S8	7002450	PARTS OR COMPONENT? OR SEGMENT? ? OR PIECE? ? OR PORTION? ? OR SECTION? ? OR PART OR UNIT? ?
S9	2262568	STATUS OR SIZE OR NUMBER? OR AMOUNT
S10	1089952	EXPANSION? OR EXPAND? OR ADDITIONAL OR ADDED OR EXPEND?
S11	746793	FORWARD OR DELIVER? OR SEND? OR SENT?
S12	561313	ORDER? OR REQUEST? OR REQUISITION?
S13	717280	STOPPED OR HALT? OR STOP OR CANCEL? OR REMIT? OR SUSPEND? - OR INTERRUPT?
S14	1107729	PREPAR? OR READY OR START OR ISSUING
S15	53958	(AUTOMATIC? OR SIMULTAN? OR DYNAMIC OR REAL()TIME OR CURRE- NT? OR PRESENT? OF INSTANT? OR IMMEDIAT?) (3N) (UPDAT? OR CHANG? OR MODIF?)
S16	800	S1 AND S2 AND S3
S17	1961	S4 AND S5
S18	298039	S6 AND S7
S19	1	S16 AND S17 AND S18
S20	18875	(S10 OR S11) AND S12 AND (S13 OR S14)
S21	3417	S7(3N)S6(5N)S8
S22	13	S16 AND S21
S23	33	S20 AND S21
S24	4	S22 AND S5
S25	2	S23 AND S5
S26	2	S25 NOT S24
S27	0	S21 AND S1 AND S3 AND S4
S28	31	S23 NOT (S26 OR S24 OR S19)
S29	24	S28 NOT AD=19970728:19991231/PR

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Search Results -

Terms	Documents
12 and 13 and 18	6

Database: [US Patents Full-Text Database](#)

Refine Search: [12 and 13 and 18](#)

Search History

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	12 and 13 and 18	6	L10
USPT	12 and 13 and 18	6	L9
USPT	705/22.ccls.	87	L8
USPT	14 and (parts adj ordering)	3	L7
USPT	5712989.dwku.	1	L6
USPT	14 and (hierarchi\$3 or tree) adj (structure)	4	L5
USPT	12 and 13	31	L4
USPT	705/29.ccls.	93	L3
USPT	705/28.ccls.	268	L2
USPT	#S653	138	L1

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Search Results - Record(s) 1 through 10 of 31 returned.

☐ 1. Document ID: US 6047264 A

Entry 1 of 31

File: USPT

Apr 4, 2000

US-PAT-NO: 6047264

DOCUMENT-IDENTIFIER: US 6047264 A

TITLE: Method for supplying automatic status updates using electronic mail

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 2. Document ID: US 6044361 A

Entry 2 of 31

File: USPT

Mar 28, 2000

US-PAT-NO: 6044361

DOCUMENT-IDENTIFIER: US 6044361 A

TITLE: Fast inventory matching algorithm for the process industry

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☒ 3. Document ID: US 6029143 A

Entry 3 of 31

File: USPT

Feb 22, 2000

US-PAT-NO: 6029143

DOCUMENT-IDENTIFIER: US 6029143 A

TITLE: Wireless communication product fulfillment system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☒ 4. Document ID: US 6029140 A

Entry 4 of 31

File: USPT

Feb 22, 2000

US-PAT-NO: 6029140

DOCUMENT-IDENTIFIER: US 6029140 A

TITLE: On-time delivery, tracking and reporting

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 5. Document ID: US 6026378 A

Entry 5 of 31

File: USPT

Feb 15, 2000

US-PAT-NO: 6026378
DOCUMENT-IDENTIFIER: US 6026378 A
TITLE: Warehouse managing system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Image
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☐ 6. Document ID: US 6026372 A

Entry 6 of 31

File: USPT

Feb 15, 2000

US-PAT-NO: 6026372
DOCUMENT-IDENTIFIER: US 6026372 A
TITLE: Computer system for maintaining current and predicting future food needs

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Image
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☐ 7. Document ID: US 6006202 A

Entry 7 of 31

File: USPT

Dec 21, 1999

US-PAT-NO: 6006202
DOCUMENT-IDENTIFIER: US 6006202 A
TITLE: Method to provide sensitivity information for lost-sale (R, s,S)
inventory systems

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Image
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☐ 8. Document ID: US 6006198 A

Entry 8 of 31

File: USPT

Dec 21, 1999

US-PAT-NO: 6006198
DOCUMENT-IDENTIFIER: US 6006198 A
TITLE: System and method for detecting merchandise sliding and under ringing at
cash register

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Image
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☒ 9. Document ID: US 6006192 A

Entry 9 of 31

File: USPT

Dec 21, 1999

US-PAT-NO: 6006192
DOCUMENT-IDENTIFIER: US 6006192 A
TITLE: Method for production planning in an uncertain demand environment

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Image
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☒ 10. Document ID: US 5974395 A

Entry 10 of 31

File: USPT

Oct 26, 1999

US-PAT-NO: 5974395
DOCUMENT-IDENTIFIER: US 5974395 A
TITLE: System and method for extended enterprise planning across a supply chain

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Image
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Entry 11 of 31

File: USPT

Oct 19, 1999

US-PAT-NO: 5970476

DOCUMENT-IDENTIFIER: US 5970476 A

TITLE: Method and apparatus for industrial data acquisition and product costing

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
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☒ 12. Document ID: US 5963919 A

Entry 12 of 31

File: USPT

Oct 5, 1999

US-PAT-NO: 5963919

DOCUMENT-IDENTIFIER: US 5963919 A

TITLE: Inventory management strategy evaluation system and method

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
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☐ 13. Document ID: US 5960408 A

Entry 13 of 31

File: USPT

Sep 28, 1999

US-PAT-NO: 5960408

DOCUMENT-IDENTIFIER: US 5960408 A

TITLE: On-time delivery, tracking and reporting

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
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☐ 14. Document ID: US 5930770 A

Entry 14 of 31

File: USPT

Jul 27, 1999

US-PAT-NO: 5930770

DOCUMENT-IDENTIFIER: US 5930770 A

TITLE: Portable computer and printer for tracking inventory

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
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☐ 15. Document ID: US 5914878 A

Entry 15 of 31

File: USPT

Jun 22, 1999

US-PAT-NO: 5914878
DOCUMENT-IDENTIFIER: US 5914878 A
TITLE: Raw materials ordering system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Image
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☐ 16. Document ID: US 5899978 A

Entry 16 of 31

File: USPT

May 4, 1999

US-PAT-NO: 5899978
DOCUMENT-IDENTIFIER: US 5899978 A
TITLE: Titling system and method therefor

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Image
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☐ 17. Document ID: US 5897624 A

Entry 17 of 31

File: USPT

Apr 27, 1999

US-PAT-NO: 5897624
DOCUMENT-IDENTIFIER: US 5897624 A
TITLE: Enhanced (R,S,S) policy for periodic review single-item inventory control

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Image
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☐ 18. Document ID: US 5893076 A

Entry 18 of 31

File: USPT

Apr 6, 1999

US-PAT-NO: 5893076
DOCUMENT-IDENTIFIER: US 5893076 A
TITLE: Supplier driven commerce transaction processing system and methodology

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Image
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☐ 19. Document ID: US 5884300 A

Entry 19 of 31

File: USPT

Mar 16, 1999

US-PAT-NO: 5884300
DOCUMENT-IDENTIFIER: US 5884300 A
TITLE: Inventory pipeline management system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Image
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☐ 20. Document ID: US 5878416 A

Entry 20 of 31

File: USPT

Mar 2, 1999

US-PAT-NO: 5878416
DOCUMENT-IDENTIFIER: US 5878416 A
TITLE: Automated system and method for matching an item of business property to a recipient

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Image
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Entry 21 of 31

File: USPT

Feb 9, 1999

US-PAT-NO: 5870733

DOCUMENT-IDENTIFIER: US 5870733 A

TITLE: Automated system and method for providing access data concerning an item of business property

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
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☐ 22. Document ID: US 5809479 A

Entry 22 of 31

File: USPT

Sep 15, 1998

US-PAT-NO: 5809479

DOCUMENT-IDENTIFIER: US 5809479 A

TITLE: On-time delivery, tracking and reporting

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
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☐ 23. Document ID: US 5794213 A

Entry 23 of 31

File: USPT

Aug 11, 1998

US-PAT-NO: 5794213

DOCUMENT-IDENTIFIER: US 5794213 A

TITLE: Method and apparatus for reforming grouped items

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
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☐ 24. Document ID: US 5771172 A

Entry 24 of 31

File: USPT

Jun 23, 1998

US-PAT-NO: 5771172

DOCUMENT-IDENTIFIER: US 5771172 A

TITLE: Raw materials ordering system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
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☐ 25. Document ID: US 5740425 A

Entry 25 of 31

File: USPT

Apr 14, 1998

US-PAT-NO: 5740425
DOCUMENT-IDENTIFIER: US 5740425 A
TITLE: Data structure and method for publishing electronic and printed product catalogs

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 26. Document ID: US 5732401 A

Entry 26 of 31

File: USPT

Mar 24, 1998

US-PAT-NO: 5732401
DOCUMENT-IDENTIFIER: US 5732401 A
TITLE: Activity based cost tracking systems

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 27. Document ID: US 5727164 A

Entry 27 of 31

File: USPT

Mar 10, 1998

US-PAT-NO: 5727164
DOCUMENT-IDENTIFIER: US 5727164 A
TITLE: Apparatus for and method of managing the availability of items

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 28. Document ID: US 5712990 A

Entry 28 of 31

File: USPT

Jan 27, 1998

US-PAT-NO: 5712990
DOCUMENT-IDENTIFIER: US 5712990 A
TITLE: Economical automated process for averting physical dangers to people, wildlife or environment due to hazardous waste

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 29. Document ID: US 5712989 A

Entry 29 of 31

File: USPT

Jan 27, 1998

US-PAT-NO: 5712989
DOCUMENT-IDENTIFIER: US 5712989 A
TITLE: Just-in-time requisition and inventory management system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 30. Document ID: US 5712789 A

Entry 30 of 31

File: USPT

Jan 27, 1998

US-PAT-NO: 5712789
DOCUMENT-IDENTIFIER: US 5712789 A
TITLE: Container monitoring system and method

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 31. Document ID: US 5657453 A

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File: USPT

Aug 12, 1997

US-PAT-NO: 5657453

DOCUMENT-IDENTIFIER: US 5657453 A

TITLE: Successively-deciding production planning system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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 including document number

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Full Title Citation Front Review Classification Date Reference Claims RMC

Document Number 3

Entry 3 of 31

File: USPT

Feb 22, 2000

US-PAT-NO: 6029143

DOCUMENT-IDENTIFIER: US 6029143 A

TITLE: Wireless communication product fulfillment system

DATE-ISSUED: February 22, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mosher; Michael S.	Carmel	IN	N/A	N/A
Howard; David L. R.	Rochester Hills	MI	N/A	N/A

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Brightpoint, Inc.	Indianapolis	IN	N/A	N/A	02

APPL-NO: 8/ 871873

DATE FILED: June 6, 1997

INT-CL: [7] G06F 17/60

US-CL-ISSUED: 705/28; 705/29, 705/34, 364/468.01, 364/468.05

US-CL-CURRENT: 705/28; 705/29, 705/34

FIELD-OF-SEARCH: 705/28, 705/22, 705/7, 705/29, 705/8, 705/34, 705/39, 705/40, 364/468.01, 364/468.05, 455/419, 455/409

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4459663</u>	July 1984	Dye	705/29
<u>5442545</u>	August 1995	Matsui et al.	705/29
<u>5450317</u>	September 1995	Lu et al.	705/10
<u>5463555</u>	October 1995	Ward et al.	364/468.01
<u>5485369</u>	January 1996	Nicholls et al.	705/9
<u>5603084</u>	February 1997	Henry, Jr. et al.	455/419
<u>5758329</u>	May 1998	Wojcik et al.	705/28
<u>5777876</u>	July 1998	Beauchesne	364/468.01
<u>5787000</u>	July 1998	Lilly et al.	364/468.01

OTHER PUBLICATIONS

"MCI Launches Retail Technology Centers Through SAM's", Newsbytes News Network, Nov. 27, 1996.

"Acqisition: CellStar Sells Communications Centers to MCI", Edge, On &

About AT&T, Dec. 2, 1996.

"Powetel Places Contracts With Siemens and Brightpoint", International Telecommunications Intelligence, Oct. 31, 1996.

ART-UNIT: 271

PRIMARY-EXAMINER: Voelte; Emanuel Todd

ASSISTANT-EXAMINER: Morgan; George D.

ATTY-AGENT-FIRM: Woodard, Emhardt, Naughton, Moriarty & McNett

ABSTRACT:

A wireless communication product fulfillment system is disclosed. This system includes a computerized management technique for maintaining inventory data, ordering data, assembly data, and shipping data regarding wireless communication product kits of different configurations. These kits may correspond to orders from agents of different wireless communication service providers. The kit configurations may each specify a different brand of wireless communication device, such as a wireless telephone or pager. The fulfillment system further facilitates efficient operation by direct electronic data interfacing with multiple ordering agents and wireless communication service carriers.

22 Claims, 6 Drawing figures

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RMC
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Document Number 10

Entry 10 of 31

File: USPT

Oct 26, 1999

US-PAT-NO: 5974395

DOCUMENT-IDENTIFIER: US 5974395 A

TITLE: System and method for extended enterprise planning across a supply chain

DATE-ISSUED: October 26, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bellini; Joseph M.	Tory	MI	N/A	N/A
Kirkegaard; Jon R.	Dallas	TX	N/A	N/A
Brady; Gregory A.	Colleyville	TX	N/A	N/A
Altman; Arthur H.	Dallas	TX	N/A	N/A

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
i2 Technologies, Inc.	Irving	TX	N/A	N/A	02

APPL-NO: 8/ 697261

DATE FILED: August 21, 1996

INT-CL: [6] G06F 15/20, G06F 15/21, G06F 17/30, G06F 17/230

US-CL-ISSUED: 705/9; 705/10, 705/28, 705/29, 705/34, 705/26

US-CL-CURRENT: 705/9; 705/10, 705/26, 705/28, 705/29, 705/34

FIELD-OF-SEARCH: 705/9, 705/10, 705/28, 705/29, 705/26, 705/34

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4799156</u>	January 1989	Shavit et al.	705/26
<u>5450317</u>	September 1995	Lu et al.	705/10
<u>5524253</u>	June 1996	Pham et al.	395/200.32
<u>5570291</u>	October 1996	Dudle et al.	364/468.01
<u>5594721</u>	January 1997	Pan	370/392
<u>5638519</u>	June 1997	Haluska	705/28
<u>5666493</u>	September 1997	Wojcik et al.	705/26
<u>5694551</u>	December 1997	Doyle et al.	705/26
<u>5712989</u>	January 1998	Johnson et al.	705/28
<u>5884300</u>	March 1999	Brockman	707/2

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO
0600448

PUBN-DATE
June 1994

COUNTRY
EP

OTHER PUBLICATIONS

PCT International Search Report; Mailing Date Jan. 23, 1998.
Document XP-002051324 by R.M. Cowdrick entitled "Supply Chain Planning (SCP)--Concepts and Case Studies," Computers ind. Engng vol. 29, No. 1-4, pp. 245-248, 1995.
Document XP-002051325 by N.C. Simpson, et al. entitled "Multiple-Stage Production Planning Research: History and Opportunities," International Journal of Operations & Production Management, vol. 16, No. 6, pp. 25-40, 1996.
Document XP-002051326 by Simon Sutton entitled "When the JIT Starts to Fly Is It Time to Keep Your Head Down or Go for ISC?" ; Logistics Information Management, vol. 7, No. 5, pp. 36-43, 1994.
Document XP-002053127 by J. Salemi, et al. entitled "Linking EDI to MRPII to Reduce Cycle Time"; IEEE, pp. 558-570, 1994.
Document XP-002051328 by D. Little, et al. entitled Scheduling Across the Supply Chain; Logistics Information Management, vol. 8, No. 1, pp. 42-48, 1995.

ART-UNIT: 277

PRIMARY-EXAMINER: MacDonald; Allen R.

ASSISTANT-EXAMINER: Myhre; James W.

ATTY-AGENT-FIRM: Baker & Botts L.L.P.

ABSTRACT:

A system for extended enterprise planning across a supply chain is provided. The system includes transactional execution system layers (14, 18) for a demand enterprise (10) and a supply enterprise (12). First and second federated electronic planning interchange layers (16, 20) provide a data specification format and an external communication interface for transactional execution system layers (14, 18). A supply chain planning engine (22), operable to perform planning for the supply chain, is in communication with a third federated electronic planning interchange layer (24) which provides a data specification format and an external communication interface for the supply chain planning engine (22). A data access/transfer layer (28) interconnects and allows transfer of information between the first, second and third electronic federated planning interchange layers (16, 20, 24). The supply chain planning engine (22), the first transactional execution system (14) and the second transactional execution system (18) can thereby communicate data which the supply chain planning engine (22) can use to provide constraint based extended enterprise planning across the supply chain.

16 Claims, 7 Drawing figures

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☐ 1. Document ID: US 5914878 A

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File: USPT

Jun 22, 1999

US-PAT-NO: 5914878

DOCUMENT-IDENTIFIER: US 5914878 A

TITLE: Raw materials ordering system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 2. Document ID: US 5771172 A

Entry 2 of 3

File: USPT

Jun 23, 1998

US-PAT-NO: 5771172

DOCUMENT-IDENTIFIER: US 5771172 A

TITLE: Raw materials ordering system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 3. Document ID: US 5657453 A

Entry 3 of 3

File: USPT

Aug 12, 1997

US-PAT-NO: 5657453

DOCUMENT-IDENTIFIER: US 5657453 A

TITLE: Successively-deciding production planning system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC

Document Number 1

Entry 1 of 3

File: USPT

Jun 22, 1999

US-PAT-NO: 5914878

DOCUMENT-IDENTIFIER: US 5914878 A

TITLE: Raw materials ordering system

DATE-ISSUED: June 22, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamamoto; Tsukasa	Tokyo	N/A	N/A	JPX
Ogawa; Masaya	Kanagawa	N/A	N/A	JPX
Yoshida; Eichii	Chiba	N/A	N/A	JPX
Hotta; Masataka	Kanagawa	N/A	N/A	JPX
Morita; Toru	Hyogo	N/A	N/A	JPX
Omori; Akiko	Osaka	N/A	N/A	JPX

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Kanebo, Ltd.	Osaka	N/A	N/A	JPX	03

APPL-NO: 8/ 898696

DATE FILED: July 22, 1997

PARENT-CASE:

This application is a Divisional application of application Ser. No. 08/650,054, filed May 16, 1996, (pending), which is a Continuation of U.S. patent application Ser. No. 08/422,976, filed Apr. 17, 1995 (abandoned), which is a Continuation of U.S. patent application Ser. No. 07/692,425, filed Apr. 29, 1991 (abandoned).

FOREIGN-APPL-PRIORITY-DATA:

FOREIGN-PRIORITY:

FOREIGN-PRIORITY-APPL-NO: JP 2-112274

FOREIGN-PRIORITY-APPL-DATE: April 28, 1990

INT-CL: [6] G06F 17/60

US-CL-ISSUED: 364/468.13; 364/468.14, 705/7, 705/8, 705/10, 705/20, 705/28, 705/29

US-CL-CURRENT: 700/106; 700/107, 705/10, 705/20, 705/28, 705/29, 705/7, 705/8

FIELD-OF-SEARCH: 364/468.13, 364/468.14, 705/7, 705/8, 705/10, 705/20, 705/28, 705/29

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5204821</u>	April 1993	Inui et al.	N/A

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY
62-10759	January 1987	JP
3-156504	June 1991	JP
4-25359	January 1992	JP

OTHER PUBLICATIONS

"Information Processing Technology For FA Production Control Total System", Kazuyasu Okada, Information Processing Society of Japan, vol. 25, No. 4, 1984, pp. 371-377, Japanese Language Article and English Language Translation.

ART-UNIT: 271
 PRIMARY-EXAMINER: Hayes; Gail O.
 ASSISTANT-EXAMINER: Hughet; William N.
 ATTY-AGENT-FIRM: Graham & James LLP

ABSTRACT:

This invention relates to a production system for retail goods which is intended for timely collection of accurate sales information from retail outlets and flexible production of goods in accordance with the same information, and comprises a retail sales information collecting means, a production quantity setting means for determining a production quantity according to the information so collected, a directing means for directing the preparation and production of raw materials according to the determined production quantity, and a production means for producing the determined production quantity according to a direction to produce. Also provided is a raw materials ordering system, which determines production quantities of raw materials in accordance with production plans for ensuring flexible production of the products without the disadvantage of carrying excessive inventories and for economical and efficient control and supply of raw materials. As such, the system comprises an order quantity determining means for setting or modifying daily required quantities of raw materials in response to setting or modification of daily production plans and determining order quantities according to raw material attributes, inventories, order backlogs, in-process order quantities and the required quantities of raw materials and a data input processing means for modifying the raw material inventory quantities upon receipt of raw material acceptance information. Furthermore, another type of the raw material ordering system disclosed in this application can be employed for those raw materials that require processing after placement of an order.

26 Claims, 70 Drawing figures

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC
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Document Number 1

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File: USPT

Jun 22, 1999

DOCUMENT-IDENTIFIER: US 5914878 A
 TITLE: Raw materials ordering system

DRPR:
 FIG. 52 is a flow chart showing steps in a parts ordering routine;

CCXR:
705/28

CCXR:
705/29

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Document Number 3

Entry 3 of 3

File: USPT

Aug 12, 1997

US-PAT-NO: 5657453

DOCUMENT-IDENTIFIER: US 5657453 A

TITLE: Successively-deciding production planning system

DATE-ISSUED: August 12, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Taoka; Tsuneo	Hyogo-ken	N/A	N/A	JPX
Megata; Masahiro	Hyogo-ken	N/A	N/A	JPX
Miki; Masayasu	Hyogo-ken	N/A	N/A	JPX

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Mitsubishi Denki Kabishiki Kaisha	Tokyo	N/A	N/A	JPX	03

APPL-NO: 8/ 016137

DATE FILED: February 10, 1993

FOREIGN-APPL-PRIORITY-DATA:

FOREIGN-PRIORITY:

FOREIGN-PRIORITY-APPL-NO: JP 4-059796

FOREIGN-PRIORITY-APPL-DATE: February 14, 1992

INT-CL: [6] G06F 17/60, G06G 7/52

US-CL-ISSUED: 395/201; 395/207, 395/208, 395/210, 395/228, 395/229

US-CL-CURRENT: 705/1; 705/10, 705/28, 705/29, 705/7, 705/8

FIELD-OF-SEARCH: 364/400, 364/401, 364/468, 364/402, 395/201, 395/208, 395/207, 395/210, 395/228, 395/229

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4888692</u>	December 1989	Gupta et al.	364/402
<u>5231567</u>	July 1993	Matoba et al.	364/401
<u>5260868</u>	November 1993	Gupta et al.	364/402
<u>5268838</u>	December 1993	Ito	364/401
<u>5278750</u>	January 1994	Kaneko et al.	364/401

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO
62-251051

PUBN-DATE
April 1986

COUNTRY
JP

OTHER PUBLICATIONS

IEEE Workshop on Artificial Intelligence for Industrial Applications
1988, IEEE Catalogue No. 88C#2529-6/88/0000-0219, Kanai et al., "An
Expert System to Assist Production Planning", pp. 219-224.

ART-UNIT: 241

PRIMARY-EXAMINER: Hayes; Gail O.

ASSISTANT-EXAMINER: Oh; Junghoon Kenneth

ATTY-AGENT-FIRM: Wolf, Greenfield & Sacks, P.C.

ABSTRACT:

To obtain a production planning system permitting an allowance of the accuracy of production designation information between preceding and following production plans in order to follow the fluctuation of product demand forecast and received orders, a time frame comprising a series of time buckets from T1 to Tn in which the production quantity and the fluctuation width of type of product become more rough for further portion of a production plan are generated and a product quantity and type of product at a certain planned point of time are allocated to each of the time buckets from T1 to Tn. As a production period comes nearer, the time buckets are finely divided and recombined to successively decide planned production quantity and type of product. In this case, an executable production designation is automatically generated by referring to a condition storing module 3 which stores the conditions for dividing and recombining the quantity and type of product.

49 Claims, 25 Drawing figures

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Document Number 3

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File: USPT

Aug 12, 1997

DOCUMENT-IDENTIFIER: US 5657453 A

TITLE: Successively-deciding production planning system

BSPR:

Problem 1: Further production plan is extremely minute and the number of data values is too many. That is, as shown in FIG. 14, the production preparation using the further production plan includes a line working plan (capacity plan) and part ordering, which frequently uses macro information such as monthly total and total of type-of-product groups compared with the very near plan. For example, the production preparations <1> and <2> in FIG. 14 are performed by using the total value in June. This is because the accuracy of macro information is higher than that of detailed information though detailed production plan information is frequently modified later even if it is used. However, all existing production plans require a large amount of data because they are expressed with micro information.

CCXR:

705/28

CCXR:

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Entry 1 of 6

File: USPT

Feb 15, 2000

US-PAT-NO: 6026372

DOCUMENT-IDENTIFIER: US 6026372 A

TITLE: Computer system for maintaining current and predicting future food needs

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 2. Document ID: US 6006198 A

Entry 2 of 6

File: USPT

Dec 21, 1999

US-PAT-NO: 6006198

DOCUMENT-IDENTIFIER: US 6006198 A

TITLE: System and method for detecting merchandise sliding and under ringing at cash register

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 3. Document ID: US 5963919 A

Entry 3 of 6

File: USPT

Oct 5, 1999

US-PAT-NO: 5963919

DOCUMENT-IDENTIFIER: US 5963919 A

TITLE: Inventory management strategy evaluation system and method

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 4. Document ID: US 5930770 A

Entry 4 of 6

File: USPT

Jul 27, 1999

US-PAT-NO: 5930770

DOCUMENT-IDENTIFIER: US 5930770 A

TITLE: Portable computer and printer for tracking inventory

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 5. Document ID: US 5794213 A

Entry 5 of 6

File: USPT

Aug 11, 1998

US-PAT-NO: 5794213
DOCUMENT-IDENTIFIER: US 5794213 A
TITLE: Method and apparatus for reforming grouped items

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
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☐ 6. Document ID: US 5712989 A

Entry 6 of 6

File: USPT

Jan 27, 1998

US-PAT-NO: 5712989
DOCUMENT-IDENTIFIER: US 5712989 A
TITLE: Just-in-time requisition and inventory management system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RWC
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File: USPT

Oct 5, 1999

US-PAT-NO: 5963919

DOCUMENT-IDENTIFIER: US 5963919 A

TITLE: Inventory management strategy evaluation system and method

DATE-ISSUED: October 5, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Brinkley; Paul Andrew	Morrisville	NC	N/A	N/A
Dorval; Thomas Lindsay	Foxboro	N/A	N/A	CAX
Zwierzynski; Theresa McMahon	Cary	NC	N/A	N/A
Gerenser, deceased; George J.	late of Raleigh	NC	N/A	N/A

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Northern Telecom Limited	N/A	N/A	N/A	CAX	03

APPL-NO: 8/ 771684

DATE FILED: December 23, 1996

INT-CL: [6] G06F 153/00

US-CL-ISSUED: 705/28; 705/29, 705/8, 705/22

US-CL-CURRENT: 705/28; 705/22, 705/29, 705/8

FIELD-OF-SEARCH: 705/28, 705/22, 705/10, 705/8, 705/27, 364/479.06, 364/468.05, 235/385

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5128861</u>	July 1992	Kagami et al.	705/10
<u>5237496</u>	August 1993	Kagami et al.	705/10
<u>5404291</u>	April 1995	Kerr et al.	705/5
<u>5446890</u>	August 1995	Renslo et al.	707/104
<u>5459656</u>	October 1995	Fields et al.	705/7
<u>5608621</u>	March 1997	Caveney et al.	705/10
<u>5611051</u>	March 1997	Pirelli	705/10
<u>5615109</u>	March 1997	Eder	705/8
<u>5712985</u>	January 1998	Lee et al.	705/7
<u>5712989</u>	January 1998	Johnson et al.	705/28
<u>5765143</u>	June 1998	Sheldon et al.	705/28
<u>5819232</u>	October 1998	Shipman	705/8

ART-UNIT: 274

PRIMARY-EXAMINER: Trammell; James P.

ASSISTANT-EXAMINER: Smith; Demetra R.

ATTY-AGENT-FIRM: Finnegan, Henderson, Farabow, Garrett & Dunner,
L.L.P.

ABSTRACT:

A system and method for evaluating an inventory management strategy combines multiple management strategies in a single inventory management system. The system analyzes the inventory portfolio on an item-by-item basis to assign the most suitable management strategy for that item. The inventory management system provides a high level of flexibility for the users to define input parameters to ensure a desired level of customer satisfaction. Additionally, it determines whether the inventory items are forecastable before predicting future demands.

44 Claims, 12 Drawing figures

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Document Number 4

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File: USPT

Jul 27, 1999

US-PAT-NO: 5930770

DOCUMENT-IDENTIFIER: US 5930770 A

TITLE: Portable computer and printer for tracking inventory

DATE-ISSUED: July 27, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Edgar; Steve	Dafter	MI	49724	N/A

APPL-NO: 8/ 759047

DATE FILED: December 2, 1996

INT-CL: [6] G06F 15/21, G06F 1/00, G06F 15/24

US-CL-ISSUED: 705/28; 705/29, 705/22, 705/26, 705/28, 705/20, 705/30, 235/462.43, 345/348

US-CL-CURRENT: 705/28; 235/462.43, 345/348, 705/20, 705/22, 705/26, 705/29, 705/30

FIELD-OF-SEARCH: 705/28

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5262940</u>	November 1993	Sussman	705/28
<u>5319544</u>	June 1994	Schmerer et al.	705/28
<u>5334822</u>	August 1994	Sanford	705/28
<u>5380994</u>	January 1995	Ray	235/472
<u>5404442</u>	April 1995	Foster et al.	N/A
<u>5515303</u>	May 1996	Cargin, Jr. et al.	N/A

ART-UNIT: 275

PRIMARY-EXAMINER: MacDonald; Allen R.

ASSISTANT-EXAMINER: Kanof; Pedro R.

ATTY-AGENT-FIRM: Kroll; Michael I.

ABSTRACT:

The present invention relates to an inventory control system (10) comprising: a portable computer (12) having a portable computer stylus (12E) which has at least one portable computer stylus button (12EB). A portable printer (14) is electrically connected to the portable computer CPU (12A). A computer software (16) is contained within the portable computer (12). The computer software (16) comprises computer software inventory (16A) having computer software inventory items. The

computer software (16) further comprises a separate computer software check box (16B) corresponding to each computer software inventory item. The computer software check box (16B) is positioned adjacent to and correlating with each computer software inventory item. The computer software (16) further comprises a separate computer software quantity (16C) corresponding to each computer software inventory item. The computer software quantity (16C) is positioned adjacent to and correlating with each computer software inventory item. The computer software (16) further comprises a separate computer software damage (16D) corresponding to each computer software inventory item. The computer software (16) further comprises a computer software disclaimer (16E) which comprises a computer software pick up disclaimer (16EA) having a computer software pick up disclaimer signature line (16EAA) and a computer software pick up disclaimer computer generated date (16EAB). The computer software disclaimer (16E) further comprises a computer software deliver disclaimer (16EB) having a computer software deliver disclaimer signature line (16EBA) and a computer software deliver disclaimer computer generated date (16EBB). The computer software (16) further comprises a computer software control (16F) which comprises computer software ON/OFF control (16FG) and a computer software print control (16FH).

3 Claims, 3 Drawing figures

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC
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Document Number 6

Entry 6 of 6

File: USPT

Jan 27, 1998

US-PAT-NO: 5712989

DOCUMENT-IDENTIFIER: US 5712989 A

TITLE: Just-in-time requisition and inventory management system

DATE-ISSUED: January 27, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Johnson; James M.	Bridgeville	PA	N/A	N/A
Momyer; Douglas A.	Upper St. Clair	PA	N/A	N/A

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Fisher Scientific Company	Pittsburgh	PA	N/A	N/A	02

APPL-NO: 8/ 042168

DATE FILED: April 2, 1993

INT-CL: [6] G06F 17/30

US-CL-ISSUED: 395/228; 395/222, 395/229, 395/200.03, 395/601, 364/468.05, 364/468.14 , 235/385

US-CL-CURRENT: 705/28; 235/385, 700/107, 700/99, 705/22, 705/29, 705/8, 707/1

FIELD-OF-SEARCH: 395/600, 395/165, 395/155, 395/161, 395/228, 395/729, 364/468, 364/413.01, 364/401, 364/403, 364/478, 364/188-189, 364/468.05, 364/468.14, 235/375, 235/385, 235/383

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4336589</u>	June 1982	Smith et al.	364/468.14
<u>4509123</u>	April 1985	Vereen	364/468.14
<u>4636950</u>	January 1987	Caswell et al.	364/468.16
<u>4656591</u>	April 1987	Goldberg	364/478
<u>4807177</u>	February 1989	Ward	364/DIG.2
<u>4843546</u>	June 1989	Yosida et al.	364/468.14
<u>4887208</u>	December 1989	Schneider et al.	364/403
<u>4916611</u>	April 1990	Doyle, Jr. et al.	364/468.05
<u>4920488</u>	April 1990	Filley	364/468.14
<u>4949248</u>	August 1990	Caro	364/DIG.1
<u>4958280</u>	September 1990	Pauly et al.	364/468.14
<u>4958292</u>	September 1990	Kaneko et al.	364/468.01
<u>4972318</u>	November 1990	Brown et al.	364/468.14
<u>4972504</u>	November 1990	Daniel, Jr. et al.	364/468.14
<u>4984155</u>	January 1981	Geier et al.	364/401
<u>5006983</u>	April 1991	Wayne et al.	364/468.14
<u>5038283</u>	August 1991	Caveney	364/468.05
<u>5077665</u>	December 1991	Silverman et al.	364/468.14
<u>5101352</u>	March 1992	Rembert	364/468.14
<u>5103079</u>	April 1992	Barakai et al.	235/380
<u>5117354</u>	May 1992	Long et al.	364/468.05
<u>5117355</u>	May 1992	McCarthy	364/468.05
<u>5163000</u>	November 1992	Rogers et al.	364/424.01
<u>5168444</u>	December 1992	Cukor et al.	364/401
<u>5168445</u>	December 1992	Kawashima et al.	364/403
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<u>5193065</u>	March 1993	Guerindon et al.	364/468
<u>5204821</u>	April 1993	Inui et al.	364/468
<u>5334822</u>	August 1994	Sanford	235/385

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SNA Transation Programmer's Reference Manual For LU Type 6.2, pp. 1-1 to 1-6 (1991).

Arlene J. Wipfler, Distributed Processing In The CICS Environment, pp. vii-xvi, 69-87 and 223-232 (1989).

"STOCKCLERK Inventory Management System," IOBar, Inc. (Copyright 1993).

"Fisher STOCKRO.TM. Inventory Management System," Fisher Scientific (Copyright 1990).

"Systems By Fisher/Inventory Management System/STOCKPRO.TM.--Single User Version" dated Feb. 28, 1989, pp. 6-1 to 6-14 and 6-21 to 6-26, 7-1 to 7-18, 8-1 to 8-20, 9-1 to 9-6, and 10-1 to 10-8.

"Fisher Scientific PurchasePro," Version 1.1 (Copyright 1994): Introduction, pp. 1-6; File Editors, pp. 1-12; Purchase Requisitions, pp. 1-12; Fastback Orders, pp. 1-8; Reports, p. 1; ReportPro, p. 1.

"LIGHTNING.TM. Fisher's Electronic Order Entry System," Fisher Scientific (Copyright 1989).

"LIGHTNING.TM. Order Entry and Information System," Fisher Scientific dated Dec. 1990 pp. 1-6, 19-54 and 91-96.

"Fisher Reliance.TM. System," Fisher Scientific (Copyright 1989).

Fisher 88 Catalog, Fisher Scientific (Copyright 1987) pp. 1536, 1549-1567.

ART-UNIT: 237

PRIMARY-EXAMINER: Black; Thomas G.

ASSISTANT-EXAMINER: Alam; Hosain T.

ATTY-AGENT-FIRM: Tabachnick; Gene A. Reed Smith Shaw & McClay

ABSTRACT:

In accordance with the present invention, a requisition and inventory management system is provided which employs both a host computer and a local computer which can be linked to permit two-way data communications in a real time environment. Each computer has an associated database which can be accessed by that computer. By accessing its respective database, each computer can build and transmit to the other computer communications blocks of data relating to a particular requisition of an item in Just-in-Time (JIT) inventory or to the management of the JIT inventory. The other computer can then use the received data to continue processing of the requisition or to update its JIT inventory records. Thus requisition records are created from a real-time interaction between the host and local computers, with each computer using data from its respective database in conjunction with information entered by a Customer Service Representative (CSR) operating the local computer.

The system of the present invention also utilizes means for automatically determining which items in the JIT inventory are likely to require replenishment. The system then proposes a purchase or transfer order for an optimum quantity of the item, which the CSR may accept or modify.

38 Claims, 12 Drawing figures

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☐ 1. Document ID: US 5914878 A

Entry 1 of 3

File: USPT

Jun 22, 1999

US-PAT-NO: 5914878

DOCUMENT-IDENTIFIER: US 5914878 A

TITLE: Raw materials ordering system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
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☐ 2. Document ID: US 5771172 A

Entry 2 of 3

File: USPT

Jun 23, 1998

US-PAT-NO: 5771172

DOCUMENT-IDENTIFIER: US 5771172 A

TITLE: Raw materials ordering system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
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☐ 3. Document ID: US 5657453 A

Entry 3 of 3

File: USPT

Aug 12, 1997

US-PAT-NO: 5657453

DOCUMENT-IDENTIFIER: US 5657453 A

TITLE: Successively-deciding production planning system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
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[Reference](#)
[Claims](#)
[KMC](#)

Document Number 1

Entry 1 of 3

File: USPT

Jun 22, 1999

US-PAT-NO: 5914878

DOCUMENT-IDENTIFIER: US 5914878 A

TITLE: Raw materials ordering system

DATE-ISSUED: June 22, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamamoto; Tsukasa	Tokyo	N/A	N/A	JPX
Ogawa; Masaya	Kanagawa	N/A	N/A	JPX
Yoshida; Eichi	Chiba	N/A	N/A	JPX
Hotta; Masataka	Kanagawa	N/A	N/A	JPX
Morita; Toru	Hyogo	N/A	N/A	JPX
Omori; Akiko	Osaka	N/A	N/A	JPX

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Kanebo, Ltd.	Osaka	N/A	N/A	JPX	03

APPL-NO: 8/ 898696

DATE FILED: July 22, 1997

PARENT-CASE:

This application is a Divisional application of application Ser. No. 08/650,054, filed May 16, 1996, (pending), which is a Continuation of U.S. patent application Ser. No. 08/422,976, filed Apr. 17, 1995 (abandoned), which is a Continuation of U.S. patent application Ser. No. 07/692,425, filed Apr. 29, 1991 (abandoned).

FOREIGN-APPL-PRIORITY-DATA:

FOREIGN-PRIORITY:

FOREIGN-PRIORITY-APPL-NO: JP 2-112274

FOREIGN-PRIORITY-APPL-DATE: April 28, 1990

INT-CL: [6] G06F 17/60

US-CL-ISSUED: 364/468.13; 364/468.14, 705/7, 705/8, 705/10, 705/20, 705/28, 705/29

US-CL-CURRENT: 700/106; 700/107, 705/10, 705/20, 705/28, 705/29, 705/7, 705/8

FIELD-OF-SEARCH: 364/468.13, 364/468.14, 705/7, 705/8, 705/10, 705/20, 705/28, 705/29

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5204821</u>	April 1993	Inui et al.	N/A

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY
62-10759	January 1987	JP
3-156504	June 1991	JP
4-25359	January 1992	JP

OTHER PUBLICATIONS

"Information Processing Technology For FA Production Control Total System", Kazuyasu Okada, Information Processing Society of Japan, vol. 25, No. 4, 1984, pp. 371-377, Japanese Language Article and English Language Translation.

ART-UNIT: 271

PRIMARY-EXAMINER: Hayes; Gail O.

ASSISTANT-EXAMINER: Hughet; William N.

ATTY-AGENT-FIRM: Graham & James LLP

ABSTRACT:

This invention relates to a production system for retail goods which is intended for timely collection of accurate sales information from retail outlets and flexible production of goods in accordance with the same information, and comprises a retail sales information collecting means, a production quantity setting means for determining a production quantity according to the information so collected, a directing means for directing the preparation and production of raw materials according to the determined production quantity, and a production means for producing the determined production quantity according to a direction to produce. Also provided is a raw materials ordering system, which determines production quantities of raw materials in accordance with production plans for ensuring flexible production of the products without the disadvantage of carrying excessive inventories and for economical and efficient control and supply of raw materials. As such, the system comprises an order quantity determining means for setting or modifying daily required quantities of raw materials in response to setting or modification of daily production plans and determining order quantities according to raw material attributes, inventories, order backlogs, in-process order quantities and the required quantities of raw materials and a data input processing means for modifying the raw material inventory quantities upon receipt of raw material acceptance information. Furthermore, another type of the raw material ordering system disclosed in this application can be employed for those raw materials that require processing after placement of an order.

26 Claims, 70 Drawing figures

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC

Document Number 1

Entry 1 of 3

File: USPT

Jun 22, 1999

DOCUMENT-IDENTIFIER: US 5914878 A
TITLE: Raw materials ordering system

DRPR:
FIG. 52 is a flow chart showing steps in a parts ordering routine;

CCXR:
705/28

CCXR:
705/29

Main Menu	Search Form	Result Set	Show S Numbers	Edit S Numbers	Referring Patents				
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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	K00C
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Document Number 2

Entry 2 of 3

File: USPT

Jun 23, 1998

US-PAT-NO: 5771172

DOCUMENT-IDENTIFIER: US 5771172 A

TITLE: Raw materials ordering system

DATE-ISSUED: June 23, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yamamoto; Tsukasa	Tokyo	N/A	N/A	JPX
Ogawa; Masaya	Kanagawa	N/A	N/A	JPX
Yoshida; Eichi	Chiba	N/A	N/A	JPX
Hotta; Masataka	Kanagawa	N/A	N/A	JPX
Morita; Toru	Hyogo	N/A	N/A	JPX
Omori; Akiko	Osaka	N/A	N/A	JPX

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Kanebo, Ltd.	Osaka	N/A	N/A	JPX	03

APPL-NO: 8/ 898024

DATE FILED: July 22, 1997

PARENT-CASE:

This application is a divisional application of application Ser. No. 08/650,054, filed May 16, 1996, (pending), which is a continuation of U.S. patent application Ser. No. 08/422,976, filed May 17, 1995 (abandoned), which is a continuation of U.S. patent application Ser. No. 07/692,425, filed Apr. 29, 1991 (abandoned).

FOREIGN-APPL-PRIORITY-DATA:

FOREIGN-PRIORITY:

FOREIGN-PRIORITY-APPL-NO: JP 2-112274

FOREIGN-PRIORITY-APPL-DATE: April 28, 1990

INT-CL: [6] G06F 17/60

US-CL-ISSUED: 364/468.13; 364/468.14, 705/7, 705/8, 705/10, 705/20, 705/28, 705/29

US-CL-CURRENT: 700/106; 705/10, 705/20, 705/28, 705/29, 705/7, 705/8

FIELD-OF-SEARCH: 364/468.13, 364/468.14, 705/7, 705/8, 705/10, 705/20, 705/28, 705/29

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5204821</u>	April 1993	Inui et al.	N/A

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY
4-25359	January 1962	JP
62-10759	January 1987	JP
3-156504	June 1991	JP

OTHER PUBLICATIONS

"Information Processing Technology For FA Production Control Total System", Kazuyasu Okada, Information Processing Society of Japan, vol. 25, No. 4, 1984, pp. 371-377, Japanese Language Article and English Language Translation.

ART-UNIT: 271
 PRIMARY-EXAMINER: Hayes; Gail O.
 ASSISTANT-EXAMINER: Hughet; William N.
 ATTY-AGENT-FIRM: Graham & James LLP

ABSTRACT:

This invention relates to a production system for retail goods which is intended for timely collection of accurate sales information from retail outlets and flexible production of goods in accordance with the same information, and comprises a retail sales information collecting means, a production quantity setting means for determining a production quantity according to the information so collected, a directing means for directing the preparation and production of raw materials according to the determined production quantity, and a production means for producing the determined production quantity according to a direction to produce. Also provided is a raw materials ordering system, which determines production quantities of raw materials in accordance with production plans for ensuring flexible production of the products without the disadvantage of carrying excessive inventories and for economical and efficient control and supply of raw materials. As such, the system comprises an order quantity determining means for setting or modifying daily required quantities of raw materials in response to setting or modification of daily production plans and determining order quantities according to raw material attributes, inventories, order backlogs, in-process order quantities and the required quantities of raw materials and a data input processing means for modifying the raw material inventory quantities upon receipt of raw material acceptance information. Furthermore, another type of the raw material ordering system disclosed in this application can be employed for those raw materials that require processing after placement of an order.

26 Claims, 68 Drawing figures

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Document Number 2

Entry 2 of 3

File: USPT

Jun 23, 1998

DOCUMENT-IDENTIFIER: US 5771172 A

TITLE: Raw materials ordering system

DRPR:

FIG. 52 is a flow chart showing steps in a parts ordering routine;

CCXR:

705/28

CCXR:

705/29[Main Menu](#) [Search Form](#) [Result Set](#) [Show S Numbers](#) [Edit S Numbers](#) [Referring Patents](#)[First Hit](#)[Previous Document](#)[Next Document](#)[Full](#)[Title](#)[Citation](#)[Front](#)[Review](#)[Classification](#)[Date](#)[Reference](#)[Claims](#)[KMC](#)[Help](#)[Logout](#)

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WEST[Help](#)[Logout](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Generate Collection](#)**Search Results - Record(s) 1 through 4 of 4 returned.**☐ 1. Document ID: US 6044361 A

Entry 1 of 4

File: USPT

Mar 28, 2000

US-PAT-NO: 6044361

DOCUMENT-IDENTIFIER: US 6044361 A

TITLE: Fast inventory matching algorithm for the process industry

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 2. Document ID: US 6006192 A

Entry 2 of 4

File: USPT

Dec 21, 1999

US-PAT-NO: 6006192

DOCUMENT-IDENTIFIER: US 6006192 A

TITLE: Method for production planning in an uncertain demand environment

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 3. Document ID: US 5740425 A

Entry 3 of 4

File: USPT

Apr 14, 1998

US-PAT-NO: 5740425

DOCUMENT-IDENTIFIER: US 5740425 A

TITLE: Data structure and method for publishing electronic and printed product catalogs

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 4. Document ID: US 5712990 A

Entry 4 of 4

File: USPT

Jan 27, 1998

US-PAT-NO: 5712990

DOCUMENT-IDENTIFIER: US 5712990 A

TITLE: Economical automated process for averting physical dangers to people, wildlife or environment due to hazardous waste

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC

Document Number 1

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File: USPT

Mar 28, 2000

US-PAT-NO: 6044361

DOCUMENT-IDENTIFIER: US 6044361 A

TITLE: Fast inventory matching algorithm for the process industry
DATE-ISSUED: March 28, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kalagnanam; Jayant R.	Tarrytown	NY	N/A	N/A
Lee; Ho Soo	Mount Kisco	NY	N/A	N/A
Trumbo; Mark Elliot	Pleasantville	NY	N/A	N/A

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
International Business Machines Corporation	Armonk	NY	N/A	N/A	02

APPL-NO: 9/ 047275

DATE FILED: March 24, 1998

INT-CL: [7] G06F 17/00

US-CL-ISSUED: 705/28; 705/29

US-CL-CURRENT: 705/28; 705/29

FIELD-OF-SEARCH: 705/28, 705/8, 705/7, 705/22, 364/468.05, 364/468.09, 364/468.13

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5251290</u>	October 1993	Pabon	395/120
<u>5463555</u>	October 1995	Ward et al.	364/468.02
<u>5671362</u>	September 1997	Cowe et al.	705/28
<u>5691895</u>	November 1997	Kurtzberg et al.	364/148
<u>5699259</u>	December 1997	Colman et al.	364/468.05
<u>5712989</u>	January 1998	Johnson et al.	705/28
<u>5734592</u>	March 1998	Cox et al.	702/179
<u>5737728</u>	April 1998	Sisley et al.	705/8
<u>5808891</u>	September 1998	Lee et al.	364/468.15
<u>5826236</u>	October 1998	Narimatsu et al.	705/8
<u>5831857</u>	November 1998	Clarino et al.	364/470.06
<u>5841958</u>	November 1998	Buss et al.	345/440

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"Modifying mixed-model assembly line sequencing methods to consider weighted variations for just-in-time production systems," by Cheng et al., Nov. 1996, IIE Transactions, v28, n11, p919(9).

"Tool handling and scheduling in a two-machine flexible manufacturing cell," by Agnetis et al., IIE Transactions, May 1996, v28, n5, p425(13).

"The segmented bidirectional single-loop topology for material flow systems," by Sinriech et al., IIE Transactions, v28, n1, p40(15).

"Tool selection for optimal part production: a Lagrangian relaxation approach," by Hsu et al., IIE Transactions, v27, n4, p417(10).

"Dynamic control of imperfect component production for assembly operations," by Gutierrez et al., IIE Transactions, v27, n5, p669(10).

"A parametric maximum flow algorithm for bipartite graphs with applications," by Y. L. Chen, European Journal of Operational Research, v80, n1, p226(10).

"A new approach to the maximum-flow problem," by Goldberg et al., Journal of the Association for Computing Machinery, v35, n4, p921(20).

ART-UNIT: 275

PRIMARY-EXAMINER: MacDonald; Allen R.

ASSISTANT-EXAMINER: Thompson, Jr.; Forest

ATTY-AGENT-FIRM: Whitham, Curtis & Whitham Kaufman; Stephen C.

ABSTRACT:

A fast computer implemented method generates near-optimal solutions to the multi-objective inventory matching problem by solving for multiple objectives simultaneously and generating multiple non-dominating solutions. The method implements a multi-assignment backjumping algorithm that consists of three steps. The first step is a rappelling step in which a feasible solution is created by applying Iterative Bipartite Matching and maximum flow algorithm. Near-optimal feasible solutions are stored in a non dominated set. The second step is to use a multi-key sort to identify undesirable matches in a given feasible solution. The third step is backlifting the solution by removing undesirable matches from the feasible solution and places those undesirable matches on a no good set of matches. If the feasible solution is non-dominated, a copy is stored in a non-dominated set. The feasible solution is finally provided as input to the repelling step.

6 Claims, 10 Drawing figures

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC

Document Number 1

Entry 1 of 4

File: USPT

Mar 28, 2000

DOCUMENT-IDENTIFIER: US 6044361 A

TITLE: Fast inventory matching algorithm for the process industry

BSPR:

A search for a solution to the inventory problem is done in the space of matches (i.e., arcs of the bipartite graph) by creating a solution by instantiating one match at a time. In this context, instantiating a match would imply choosing a MU.sub.size and a MU.sub.number for the associated match. This search can be either a depth-first, breadth-first or a best-first (especially, if we have a good evaluation function for partial solutions). Therefore, the search progresses iteratively, expanding one match at a time, and then backtracking to cover all possibilities. Such an enumerative search procedure can be represented using tree structure where the intermediate nodes represent partial solutions and the leaf nodes represent complete solutions. Note that a child node is derived from a parent node expanding one match. This tree representation is called a search tree. Clearly, a naive approach to search is exponential. For example, typical problem instances with 200 orders and 100 slabs with an edges density of 5% would have 1000 edges. Assuming that we fix the MU.sub.size arbitrarily at MU.sub.min and the average number of integer values for MU.sub.number on each edge is 5, then we have a search space of 5.sup.1000 which is a very large number and a naive search would return good solutions in limited time only by chance.

CCOR:

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CCXR:

705/29

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Document Number 2

Entry 2 of 4

File: USPT

Dec 21, 1999

US-PAT-NO: 6006192

DOCUMENT-IDENTIFIER: US 6006192 A

TITLE: Method for production planning in an uncertain demand environment

DATE-ISSUED: December 21, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cheng; Feng	Elmsford	NY	N/A	N/A
Connors; Daniel Patrick	Wappingers Falls	NY	N/A	N/A
Ervolina; Thomas Robert	Hopewell Junction	NY	N/A	N/A
Srinivasan; Ramesh	San Jose	CA	N/A	N/A

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
International Business Machines Corporation	Armonk	NY	N/A	N/A	02

APPL-NO: 8/ 815825

DATE FILED: March 12, 1997

INT-CL: [6] G06F 15/00, G06F 15/46, G06F 15/21, G06F 15/22

US-CL-ISSUED: 705/7; 705/10, 705/20, 705/28, 705/29, 705/35, 705/8

US-CL-CURRENT: 705/7; 705/10, 705/20, 705/28, 705/29, 705/35, 705/8

FIELD-OF-SEARCH: 395/208, 395/701, 395/703, 395/898, 364/468, 364/401, 364/403, 364/468.13, 364/468.19, 364/468.01, 364/149, 705/10, 705/28, 705/8, 705/38, 705/35, 705/7, 705/20, 705/29, 702/2, 342/64

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>4847761</u>	July 1989	Ferriter et al.	364/401
<u>4862376</u>	August 1989	Ferriter et al.	364/468
<u>5229948</u>	July 1993	Wei et al.	364/468
<u>5237495</u>	August 1993	Morii	364/401
<u>5287267</u>	February 1994	Jayaraman et al.	364/403
<u>5615109</u>	March 1997	Eder	395/208

OTHER PUBLICATIONS

Kapsiotis G. and Tzafestas S., Hierarchical Control Approach to Managerial Problems for Manufacturing Systems, in Modern Manufacturing, Information Control and Technology, , ed. Zaremba & Prasad, Springer-Verlag, pp. 173-223, 1994.
 Beckert B.A., The role of Computer-Integrated Manufacturing, in The CAD/CAM Handbook, ed. Machover C., McGraw-Hill, pp. 229-238, 1996.

ART-UNIT: 275

PRIMARY-EXAMINER: MacDonald; Allen R.

ASSISTANT-EXAMINER: Kanof; Pedro R.

ATTY-AGENT-FIRM: Scully, Scott, Murphy & Presser Kaufman, Esq; Stephen C.

ABSTRACT:

A decision-making method suitable for production planning in an uncertain demand environment. To this end, the method comprises combining an implosion technology with a scenario-based analysis, thus manifesting, a sui generis capability which preserves the advantages and benefits of each of its subsumed aspects.

12 Claims, 8 Drawing figures

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Document Number 2

Entry 2 of 4

File: USPT

Dec 21, 1999

DOCUMENT-IDENTIFIER: US 6006192 A

TITLE: Method for production planning in an uncertain demand environment

DEPR:

The tree structure is utilized internally to represent demand scenarios. A general scenario tree can be illustrated by FIG. 1 (numeral 12).

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CCXR:

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Entry 1 of 4

File: USPT

Mar 28, 2000

US-PAT-NO: 6044361

DOCUMENT-IDENTIFIER: US 6044361 A

TITLE: Fast inventory matching algorithm for the process industry

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 2. Document ID: US 6006192 A

Entry 2 of 4

File: USPT

Dec 21, 1999

US-PAT-NO: 6006192

DOCUMENT-IDENTIFIER: US 6006192 A

TITLE: Method for production planning in an uncertain demand environment

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 3. Document ID: US 5740425 A

Entry 3 of 4

File: USPT

Apr 14, 1998

US-PAT-NO: 5740425

DOCUMENT-IDENTIFIER: US 5740425 A

TITLE: Data structure and method for publishing electronic and printed product catalogs

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 4. Document ID: US 5712990 A

Entry 4 of 4

File: USPT

Jan 27, 1998

US-PAT-NO: 5712990

DOCUMENT-IDENTIFIER: US 5712990 A

TITLE: Economical automated process for averting physical dangers to people, wildlife or environment due to hazardous waste

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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Citation

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Review

Classification

Date

Reference

Claims

KMC

Document Number 1

Entry 1 of 4

File: USPT

Mar 28, 2000

DOCUMENT-IDENTIFIER: US 6044361 A
TITLE: Fast inventory matching algorithm for the process industry

BSPR:
A search for a solution to the inventory problem is done in the space of matches (i.e., arcs of the bipartite graph) by creating a solution by instantiating one match at a time. In this context, instantiating a match would imply choosing a MU.sub.size and a MU.sub.number for the associated match. This search can be either a depth-first, breadth-first or a best-first (especially, if we have a good evaluation function for partial solutions). Therefore, the search progresses iteratively, expanding one match at a time, and then backtracking to cover all possibilities. Such an enumerative search procedure can be represented using tree structure where the intermediate nodes represent partial solutions and the leaf nodes represent complete solutions. Note that a child node is derived from a parent node expanding one match. This tree representation is called a search tree. Clearly, a naive approach to search is exponential. For example, typical problem instances with 200 orders and 100 slabs with an edges density of 5% would have 1000 edges. Assuming that we fix the MU.sub.size arbitrarily at MU.sub.min and the average number of integer values for MU.sub.number on each edge is 5, then we have a search space of 5.sup.1000 which is a very large number and a naive search would return good solutions in limited time only by chance.

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705/28

CCXR:
705/29

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Document Number 2

Entry 2 of 4

File: USPT

Dec 21, 1999

US-PAT-NO: 6006192

DOCUMENT-IDENTIFIER: US 6006192 A

TITLE: Method for production planning in an uncertain demand environment

DATE-ISSUED: December 21, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cheng; Feng	Elmsford	NY	N/A	N/A
Connors; Daniel Patrick	Wappingers Falls	NY	N/A	N/A
Ervolina; Thomas Robert	Hopewell Junction	NY	N/A	N/A
Srinivasan; Ramesh	San Jose	CA	N/A	N/A

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
International Business Machines Corporation	Armonk	NY	N/A	N/A	02

APPL-NO: 8/ 815825

DATE FILED: March 12, 1997

INT-CL: [6] G06F 15/00, G06F 15/46, G06F 15/21, G06F 15/22

US-CL-ISSUED: 705/7; 705/10, 705/20, 705/28, 705/29, 705/35, 705/8

US-CL-CURRENT: 705/7; 705/10, 705/20, 705/28, 705/29, 705/35, 705/8

FIELD-OF-SEARCH: 395/208, 395/701, 395/703, 395/898, 364/468, 364/401, 364/403, 364/468.13, 364/468.19, 364/468.01, 364/149, 705/10, 705/28, 705/8, 705/38, 705/35, 705/7, 705/20, 705/29, 702/2, 342/64

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
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<u>4862376</u>	August 1989	Ferriter et al.	364/468
<u>5229948</u>	July 1993	Wei et al.	364/468
<u>5237495</u>	August 1993	Morii	364/401
<u>5287267</u>	February 1994	Jayaraman et al.	364/403
<u>5615109</u>	March 1997	Eder	395/208

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Kapsiotis G. and Tzafestas S., Hierarchical Control Approach to Managerial Problems for Manufacturing Systems, in Modern Manufacturing, Information Control and Technology, , ed. Zaremba & Prasad, Springer-Verlag, pp. 173-223, 1994.
Beckert B.A., The role of Computer-Integrated Manufacturing, in 'The CAD/CAM Handbook, ed. Machover C., McGraw-Hill, pp. 229-238, 1996.

ART-UNIT: 275

PRIMARY-EXAMINER: MacDonald; Allen R.

ASSISTANT-EXAMINER: Kanof; Pedro R.

ATTY-AGENT-FIRM: Scully, Scott, Murphy & Presser Kaufman, Esq; Stephen C.

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A decision-making method suitable for production planning in an uncertain demand environment. To this end, the method comprises combining an implosion technology with a scenario-based analysis, thus manifesting, a sui generis capability which preserves the advantages and benefits of each of its subsumed aspects.

12 Claims, 8 Drawing figures

Main Menu	Search Form	Result Set	Show S Numbers	Edit S Numbers	Referring Patents				
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File: USPT

Dec 21, 1999

DOCUMENT-IDENTIFIER: US 6006192 A

TITLE: Method for production planning in an uncertain demand environment

DEPR:

The tree structure is utilized internally to represent demand scenarios. A general scenario tree can be illustrated by FIG. 1 (numeral 12).

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CCXR:

705/29

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[Help](#)[Logout](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Generate Collection](#)**Search Results - Record(s) 1 through 10 of 38 returned.**☐ 1. Document ID: US 6061820 A

Entry 1 of 38

File: USPT

May 9, 2000

US-PAT-NO: 6061820

DOCUMENT-IDENTIFIER: US 6061820 A

TITLE: Scheme for error control on ATM adaptation layer in ATM networks

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 2. Document ID: US 6056204 A

Entry 2 of 38

File: USPT

May 2, 2000

US-PAT-NO: 6056204

DOCUMENT-IDENTIFIER: US 6056204 A

TITLE: Synthetic jet actuators for mixing applications

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 3. Document ID: US 6035212 A

Entry 3 of 38

File: USPT

Mar 7, 2000

US-PAT-NO: 6035212

DOCUMENT-IDENTIFIER: US 6035212 A

TITLE: Multi-frequency wireless communication device

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 4. Document ID: US 6016497 A

Entry 4 of 38

File: USPT

Jan 18, 2000

US-PAT-NO: 6016497

DOCUMENT-IDENTIFIER: US 6016497 A

TITLE: Methods and system for storing and accessing embedded information in object-relational databases

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 5. Document ID: US 5988522 A

Entry 5 of 38

File: USPT

Nov 23, 1999

US-PAT-NO: 5988522
DOCUMENT-IDENTIFIER: US 5988522 A
TITLE: Synthetic jet actuators for modifying the direction of fluid flows

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
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☐ 6. Document ID: US 5971589 A

Entry 6 of 38

File: USPT

Oct 26, 1999

US-PAT-NO: 5971589
DOCUMENT-IDENTIFIER: US 5971589 A
TITLE: Apparatus and method for managing and distributing design and manufacturing information throughout a sheet metal production facility

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
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☐ 7. Document ID: US 5969973 A

Entry 7 of 38

File: USPT

Oct 19, 1999

US-PAT-NO: 5969973
DOCUMENT-IDENTIFIER: US 5969973 A
TITLE: Intelligent system for generating and executing a sheet metal bending plan

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
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☐ 8. Document ID: US 5963712 A

Entry 8 of 38

File: USPT

Oct 5, 1999

US-PAT-NO: 5963712
DOCUMENT-IDENTIFIER: US 5963712 A
TITLE: Selectively configurable robot apparatus

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
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☐ 9. Document ID: US 5960414 A

Entry 9 of 38

File: USPT

Sep 28, 1999

US-PAT-NO: 5960414
DOCUMENT-IDENTIFIER: US 5960414 A
TITLE: Method for monitoring excess inventory

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
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☐ 10. Document ID: US 5957413 A

Entry 10 of 38

File: USPT

Sep 28, 1999

US-PAT-NO: 5957413
DOCUMENT-IDENTIFIER: US 5957413 A
TITLE: Modifications of fluid flow about bodies and surfaces with synthetic jet actuators

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMMC	Image
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Entry 11 of 38

File: USPT

Sep 7, 1999

US-PAT-NO: 5949998

DOCUMENT-IDENTIFIER: US 5949998 A

TITLE: Filtering an object interface definition to determine services needed and provided

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ **12. Document ID: US 5940083 A**

Entry 12 of 38

File: USPT

Aug 17, 1999

US-PAT-NO: 5940083

DOCUMENT-IDENTIFIER: US 5940083 A

TITLE: Multi-curve rendering modification apparatus and method

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ **13. Document ID: US 5890117 A**

Entry 13 of 38

File: USPT

Mar 30, 1999

US-PAT-NO: 5890117

DOCUMENT-IDENTIFIER: US 5890117 A

TITLE: Automated voice synthesis from text having a restricted known informational content

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ **14. Document ID: US 5886897 A**

Entry 14 of 38

File: USPT

Mar 23, 1999

US-PAT-NO: 5886897

DOCUMENT-IDENTIFIER: US 5886897 A

TITLE: Apparatus and method for managing and distributing design and manufacturing information throughout a sheet metal production facility

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 15. Document ID: US 5867649 A

Entry 15 of 38

File: USPT

Feb 2, 1999

US-PAT-NO: 5867649

DOCUMENT-IDENTIFIER: US 5867649 A

TITLE: Dance/multitude concurrent computation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 16. Document ID: US 5864482 A

Entry 16 of 38

File: USPT

Jan 26, 1999

US-PAT-NO: 5864482

DOCUMENT-IDENTIFIER: US 5864482 A

TITLE: Apparatus and method for managing distributing design and manufacturing information throughout a sheet metal production facility

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 17. Document ID: US 5842157 A

Entry 17 of 38

File: USPT

Nov 24, 1998

US-PAT-NO: 5842157

DOCUMENT-IDENTIFIER: US 5842157 A

TITLE: Process for monitoring a machine or installation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 18. Document ID: US 5828575 A

Entry 18 of 38

File: USPT

Oct 27, 1998

US-PAT-NO: 5828575

DOCUMENT-IDENTIFIER: US 5828575 A

TITLE: Apparatus and method for managing and distributing design and manufacturing information throughout a sheet metal production facility

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 19. Document ID: US 5812840 A

Entry 19 of 38

File: USPT

Sep 22, 1998

US-PAT-NO: 5812840

DOCUMENT-IDENTIFIER: US 5812840 A

TITLE: Database query system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 20. Document ID: US 5806075 A

Entry 20 of 38

File: USPT

Sep 8, 1998

US-PAT-NO: 5806075

DOCUMENT-IDENTIFIER: US 5806075 A

TITLE: Method and apparatus for peer-to-peer data replication

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	RMC	Image
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Entry 21 of 38

File: USPT

Jul 7, 1998

US-PAT-NO: 5778000

DOCUMENT-IDENTIFIER: US 5778000 A

TITLE: Frame synchronization method

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 22. Document ID: US 5774525 A

Entry 22 of 38

File: USPT

Jun 30, 1998

US-PAT-NO: 5774525

DOCUMENT-IDENTIFIER: US 5774525 A

TITLE: Method and apparatus utilizing dynamic questioning to provide secure access control

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 23. Document ID: US 5761667 A

Entry 23 of 38

File: USPT

Jun 2, 1998

US-PAT-NO: 5761667

DOCUMENT-IDENTIFIER: US 5761667 A

TITLE: Method of optimizing database organization using sequential unload/load operations

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 24. Document ID: US 5737601 A

Entry 24 of 38

File: USPT

Apr 7, 1998

US-PAT-NO: 5737601

DOCUMENT-IDENTIFIER: US 5737601 A

TITLE: Method and apparatus for peer-to-peer data replication including handling exceptional occurrences

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ 25. Document ID: US 5603021 A

Entry 25 of 38

File: USPT

Feb 11, 1997

US-PAT-NO: 5603021

DOCUMENT-IDENTIFIER: US 5603021 A

TITLE: Methods for composing formulas in an electronic spreadsheet system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Image
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☐ 26. Document ID: US 5592614 A

Entry 26 of 38

File: USPT

Jan 7, 1997

US-PAT-NO: 5592614

DOCUMENT-IDENTIFIER: US 5592614 A

TITLE: Fault identification system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Image
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☐ 27. Document ID: US 5584024 A

Entry 27 of 38

File: USPT

Dec 10, 1996

US-PAT-NO: 5584024

DOCUMENT-IDENTIFIER: US 5584024 A

TITLE: Interactive database query system and method for prohibiting the selection of semantically incorrect query parameters

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Image
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☐ 28. Document ID: US 5581454 A

Entry 28 of 38

File: USPT

Dec 3, 1996

US-PAT-NO: 5581454

DOCUMENT-IDENTIFIER: US 5581454 A

TITLE: High power switched capacitor voltage conversion and regulation apparatus

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Image
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☐ 29. Document ID: US 5548755 A

Entry 29 of 38

File: USPT

Aug 20, 1996

US-PAT-NO: 5548755

DOCUMENT-IDENTIFIER: US 5548755 A

TITLE: System for optimizing correlated SQL queries in a relational database using magic decorrelation

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMOC	Image
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☐ 30. Document ID: US 5455749 A

Entry 30 of 38

File: USPT

Oct 3, 1995

US-PAT-NO: 5455749

DOCUMENT-IDENTIFIER: US 5455749 A

TITLE: Light, audio and current related assemblies, attachments and devices
with conductive compositions

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Image
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Entry 31 of 38

File: USPT

Sep 12, 1995

US-PAT-NO: 5450600

DOCUMENT-IDENTIFIER: US 5450600 A

TITLE: Integrated command recognition apparatus and method for selecting an optimal command among numerous commands

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ **32. Document ID: US 5349674 A**

Entry 32 of 38

File: USPT

Sep 20, 1994

US-PAT-NO: 5349674

DOCUMENT-IDENTIFIER: US 5349674 A

TITLE: Automated enrollment of a computer system into a service network of computer systems

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ **33. Document ID: US 5260866 A**

Entry 33 of 38

File: USPT

Nov 9, 1993

US-PAT-NO: 5260866

DOCUMENT-IDENTIFIER: US 5260866 A

TITLE: Expert configurator

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ **34. Document ID: US 5220657 A**

Entry 34 of 38

File: USPT

Jun 15, 1993

US-PAT-NO: 5220657

DOCUMENT-IDENTIFIER: US 5220657 A

TITLE: Updating local copy of shared data in a collaborative system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Image
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☐ **35. Document ID: US 5216612 A**

US-PAT-NO: 5216612

DOCUMENT-IDENTIFIER: US 5216612 A

TITLE: Intelligent computer integrated maintenance system and method

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Image
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☐ 36. Document ID: US 5008853 A

Entry 36 of 38

File: USPT

Apr 16, 1991

US-PAT-NO: 5008853

DOCUMENT-IDENTIFIER: US 5008853 A

TITLE: Representation of collaborative multi-user activities relative to shared structured data objects in a networked workstation environment

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Image
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☐ 37. Document ID: US 4267568 A

Entry 37 of 38

File: USPT

May 12, 1981

US-PAT-NO: 4267568

DOCUMENT-IDENTIFIER: US 4267568 A

TITLE: Information storage and retrieval system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Image
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☐ 38. Document ID: US 4068298 A

Entry 38 of 38

File: USPT

Jan 10, 1978

US-PAT-NO: 4068298

DOCUMENT-IDENTIFIER: US 4068298 A

TITLE: Information storage and retrieval system

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMIC	Image
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Document Number 9

Entry 9 of 38

File: USPT

Sep 28, 1999

US-PAT-NO: 5960414

DOCUMENT-IDENTIFIER: US 5960414 A

TITLE: Method for monitoring excess inventory

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rand; Christopher James	Roseville	CA	N/A	N/A
Peterson; Karla Jane	San Jose	CA	N/A	N/A

ASSIGNEE INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Hewlett-Packard Company	Palo Alto	CA	N/A	N/A	02

APPL-NO: 8/ 977303

DATE FILED: November 25, 1997

INT-CL: [6] G06F 17/00

US-CL-ISSUED: 705/28; 705/22

US-CL-CURRENT: 705/28; 705/22

FIELD-OF-SEARCH: 705/28, 705/22

REF-CITED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<u>5101352</u>	March 1992	Rembert	705/8

OTHER PUBLICATIONS

Robert W. Hall, Planning Your Material Requirements, Harvart Business Review, Sep./Oct. 1978, p. 105.

Ann Saccomano, The Great MRP Debate, Traffic World, Oct. 21, 1996, p. 22.

Kevin Parker, Evolution continues in MRP II-type systems, Manufacturing Systems, V12 n7, pp. 32-54, Jul. 1994, ISSN: 0748948X.

ART-UNIT: 274

PRIMARY-EXAMINER: Peeso; Thomas R.

ABSTRACT:

An excess inventory system monitors excess material. In the system, requirements are determined for each component part over a predetermined period (e.g., 6 months) from material requirements planning (MRP) data. When forecasting for the component part is to be

planning (MRP) data. When forecasting for the component part is to be determined using an MRP planning method, the MRP data is used to determine a number of excess component parts. The number of excess components is then recorded in a record for the component part within an excess inventory table. When forecasting for the component part is to be determined using an alternate planning method which is alternate to MRP, the alternate planning method is used to determine a number of excess component parts. The number of excess components and a notation indicating the alternate planning method used are then recorded in the record for the component part within the excess inventory table.

22 Claims, 4 Drawing figures

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Full Title Citation Front Review Classification Date Reference Claims RMC

Document Number 9

Entry 9 of 38

File: USPT

Sep 28, 1999

DOCUMENT-IDENTIFIER: US 5960414 A

TITLE: Method for monitoring excess inventory

BSEQ:

excess component parts=number of component parts on hand+number of component parts on order-requirements for the component part over the predetermined period.

DRPR:

FIG. 3 is a flowchart which shows process flow for a strip module in an excess inventory system in accordance with a preferred embodiment of the present invention.

DEPR:

Copy management module 27 allows records within excess inventory detail table 25 to be carried over from month to month. Copy management module 28 performs a summary roll-up from excess inventory detail table 25 to financially summarized excess inventory data table 29. Additionally Load program 30 is used to add or update information in financially summarized excess inventory data table 29. Financially summarized excess inventory data table 29 can be updated less frequency, for example, at the end of each month.

DEPR:

All information in excess inventory detail table 25 and financially summarized excess inventory data table 29 is organized in a hierarchical structure with the larger information categories (i.e. current month, plant, MRP controller, material number) supported by smaller tactical data (i.e. excess quantity, open order quantity). User generated reports are provided through a graphical interface which allows individuals to see which smaller data pieces are supporting the higher level data.

CLEQ:

excess component parts=number of component parts on hand +number of component parts on order-requirements for the component part over the predetermined period.

CLEQ:

excess component parts=number of component parts on hand +number of component parts on order-requirements for the component part over the predetermined period.

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